

Manchester Water Works
Finished Water Quality Information

Ia. Regulated Health Related Contaminants

<u>Contaminant</u>	<u>Maximum Contaminant Level</u>	<u>MWW Level</u>	<u>Units</u>
a. Microbiological			
Total coliform	A	A	P/A
Fecal coliform	A	A	P/A
Giardia	0.29*	<0.29	Cysts/100L
Cryptosporidium	0.29*	<0.29	Cysts/100L
b. Clarity			
Turbidity (Avg. system values) ...	0.5	0.14	NTU
c. Inorganic			
Arsenic	0.01	nd	mg/l
Asbestos	7	nd	mfl
Barium.....	2.0	0.012	mg/l
Cadmium.....	0.005	nd	mg/l
Chromium	0.1	nd	mg/l
Copper.....	1.3*	0.035	mg/l
Fluoride	4.0	1.1	mg/l
Lead.....	0.015*	0.009	mg/l
Mercury.....	0.002	nd	mg/l
Nitrate (as N)	10	nd	mg/l
Nitrite (as N)	1	0.02	mg/l
Selenium	0.05	nd	mg/l
d. Volatile Organics			
Benzene.....	0.005	nd	mg/l
Carbon tetrachloride	0.005	nd	mg/l
1,2 dichloroethane.....	0.005	nd	mg/l
Trichloroethylene.....	0.005	nd	mg/l
Paradichlorobenzene.....	0.075	nd	mg/l
1, 1 dichloroethylene.....	0.007	nd	mg/l
1, 1, 1 trichloroethane	0.2	nd	mg/l
Vinyl chloride	0.002	nd	mg/l
Cis 1, 2 dichloroethylene	0.07	nd	mg/l
1, 2 dichloropropane	0.005	nd	mg/l
Ethylbenzene.....	0.7	nd	mg/l
Monochlorobenzene.....	0.1	nd	mg/l
O-Dichlorobenzene.....	0.6	nd	mg/l
Styrene	0.1	nd	mg/l
Thetrachloroethylene	0.005	nd	mg/l
Toluene	1	nd	mg/l
Trans 1, 2 dichloroethylene	0.1	nd	mg/l
Xylene, Total	10	nd	mg/l
Methyl-t-butylether (MtBE).....	13	0.12	ug/l

* Denotes Action Level

Ib. Regulated Health Related Contaminants - continued

<u>Contaminant</u>	<u>Maximum Contaminant Level</u>	<u>MWW Level</u>	<u>Units</u>
e. Radionuclides			
Gross Alpha	15	0.5	pCi/l
Gross Beta.....	4	2.09	mrem/yr
Radium 226 and 228	5	<1	pCi/l
Radon	100*	<100	pCi/l
Uranium.....	0.030	<1	pCi/l
a. Disinfectants By-products			
(Avg. system values)			
Total Trihalomethanes	0.080	0.057	mg/l
Haloacetic Acid.....	0.060	0.017	mg/l
g. Synthetic Organics			
Endrin.....	0.002	nd	mg/l
Lindane	0.0002	nd	mg/l
Methoxychlor.....	0.04	nd	mg/l
Pentacholorophenol	0.001	nd	mg/l
Polychlorinated Biphenyls.....	0.0005	nd	mg/l
Toxaphene.....	0.003	nd	mg/l
2,4,5 TP (Silvex).....	0.05	nd	mg/l
2,4 D.....	0.07	nd	mg/l
bis (2-Ethylhexyl) phthalate.....	0.001	nd	mg/l
h. Other Synthetic Organics			
Benz(a)anthracene	0.0001	nd	mg/l
Benzo(a)pyrene	0.0002	nd	mg/l
Benzo(b)Fluoranthene	0.0002	nd	mg/l
Benzo(K)Fluoranthene.....	0.0002	nd	mg/l
Butylbenzylphathalate	0.007	nd	mg/l
Chrysene	0.0002	nd	mg/l
Dibenz(a,h)anthracene	0.0003	nd	mg/l
Di (ethylhexyl) phatalate	0.006	nd	mg/l
Hexachlorobenzene.....	0.001	nd	mg/l
Hexachlorocyclopentadiene.....	0.05	nd	mg/l
Indenopyrene	0.0004	nd	mg/l

II. Regulated Secondary Contaminants Aesthetic Qualities

<u>Contaminant</u>	<u>Maximum Contaminant Level</u>	<u>MWW Level</u>	<u>Units</u>
Aluminum	0.05	0.050	mg/l
Chloride	250	41.0	mg/l
Color	15	2	units
Iron.....	0.3	<0.05	mg/l
Manganese	0.05	0.071	mg/l
pH	6.5 - 8.5	7.5 - 8.0	mg/l
Silver.....	0.01	< 0.005	mg/l
Sulfate.....	500	8.3	mg/l
Total Dissolved Solids	500	110	mg/l
Zinc	5	0.53	mg/l
Sodium	100 - 250	27.0	mg/l
UV-254		0.027	cm ⁻¹
Total Organic Carbon.....	2	1.8	mg/l

III. Unregulated Contaminants

a. Unregulated Organics

Chloroform.....	0.0277	mg/l
Bromobenzene	nd	mg/l
Bromodichloromethane.....	0.003	mg/l
Bromoform.....	nd	mg/l
Bromomethane.....	nd	mg/l
Chlorobenzene	nd	mg/l
Chlorodibromomethane	nd	mg/l
Chloroethane	nd	mg/l
Chloromethane.....	nd	mg/l
o-Chlorotoluene	nd	mg/l
p-Chlorotoluene	nd	mg/l
Dibromomethane.....	nd	mg/l
1,2-Dibromo-3-Chloropropane	nd	mg/l
m-Dichlorobenzene.....	nd	mg/l
Dichloromethane.....	nd	mg/l
1,1-Dichloroethane	nd	mg/l
1,2 Dichloropropane	nd	mg/l
1,3-Dichloropropane	nd	mg/l
2,2-Dichloropropane	nd	mg/l
1,1-Dichloropropene	nd	mg/l
1,3-Dichloropropene	nd	mg/l
1,1,2,2-Tetrachloroethane	nd	mg/l
1,1,1,2-Tetrachloroethane	nd	mg/l
1,1,2-Trichloroethane.....	nd	mg/l
1,2,3-Trichloropropane	nd	mg/l

* Denotes Action Level

III. Unregulated Contaminants - continued

<u>Contaminant</u>	<u>Maximum Contaminant Level</u>	<u>MWW Level</u>	<u>Units</u>
b. Unregulated Secondary Contaminants			
Alkalinity	9.3		mg/l
Chlorine (free).....	0.51		mg/l
Calcium Hardness.....	6.6		mg/l
Total Hardness	15.7		mg/l
Orthophosphate.....	1.55		mg/l
Specific Conductance	185-210		uS/cm

Key to Abbreviations

- MCL** Maximum Contaminant Level — State of NH Department of Environmental Services
- MWW Level** Typical level of each contaminant in Manchester Water Works drinking water
- Units** The scientific unit of measure
- nd or nd <**..... Not detected or below detection limits, respectively
- mg/l**..... Milligrams per liter or parts per million
- ug/l**..... Micrograms per liter
- ntu**..... Nephelometric turbidity units — a measure of clarity
- pCi/l**..... Picocuries per liter — a measure of radioactivity
- uS/cm**..... Microsimens per centimeter — a measure of electrical conductivity
- A or P**..... Absence or Presence of bacteria with no more than 5% of samples being positive
- Mfl**..... Million Asbestos fibers per liter